

FREEWAYS – HCS 2000 SUMMARY

A freeway has many variables and factors that are used to determine its LOS. The LOS of a freeway is measured by density in passenger cars per mile per lane (pc/mi/ln). Although there are many different variables used to decide the LOS of a freeway facility, a determination was made following the 2000 HCM sensitivity analysis that many variables needed further examination to see if reasonable defaults could be chosen. These include:

- Interchanges per mile
- Free flow speed (FFS)
- Percent trucks
- Grade
- Length of grade

Figures B4 and B5 refer to changes in the LOS for interchanges per mile and FFS for a two lane freeway facility, respectively. These two variables showed relatively small variations in the LOS as volumes increased. For freeways, these two figures showed “low” sensitivity, and therefore reasonable defaults can be obtained.

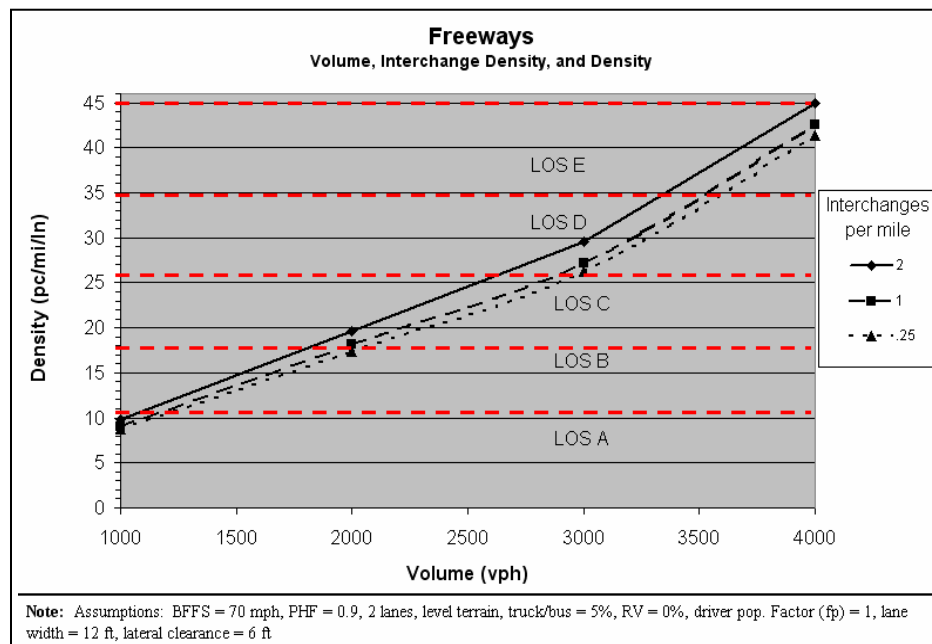


Figure B4. Interchanges Per Mile